

User's Manual

Read Me First

IM 01W02D01-11EN

vigilantplant.[®]

This document specifies the important information to use this product correctly and safely and the License Agreement of Attached Software for YFGW410 Field Wireless Management Station.

Before use the product, be sure to read this document first.

Contents

Introduction.....	2
Safety Precautions	3
How to Use Online Manual	7
Preparation to Use YFGW410 Attached Software	7
Copyright and Trademark Notices	8
Open Source Software	8
About User's Manual.....	9
Information of User's Manual Revision	9
YFGW410 Software License Agreement.....	10

Introduction

■ Regarding This User's Manual

- This manual should be provided to the end user. Please recommend end users to keep this manual at hand and refer to it as needed.
- Before use, read this manual thoroughly to comprehend its contents.
- The purpose of the User's Manual is to describe details of functions provided in this product, not to warrant the product's suitability to the specific purposes of customers.
- No part of this manual may be reproduced in any form without Yokogawa's written permission.
- The contents of this manual may be changed without prior notice.
- All reasonable effort has been made to ensure the accuracy of the contents of this manual. However, if any errors or omissions are found, please inform any of sales offices listed on the back cover or your local distributor.
- Special specifications are not described.
- Please note that this User's Manual may not be revised for any specification changes, construction changes or operating part changes that are not considered to affect function or performance.

Safety Precautions

■ Safety, Protection, and Modification of the Product

- In order to protect the operator, product, and system controlled by the product, observe the safety precautions described in this User's Manual. If users handle contrary to these instructions, we can not guarantee the safety.
- If this instrument is used in a manner not specified in this User's Manual, the protection provided by this instrument may be impaired.
- Modification of the product is strictly prohibited.
- If customers attempt to repair or modify explosion-proof type products and fail to return them to their original state, the explosion-proof structure of this product will be lost, resulting in a hazardous state. All repairs and modifications of the product must be consulted with Yokogawa.
- If any protection or safety circuit is required for the system controlled by the product or for the product itself, prepares it separately.
- Be sure to use the spare parts approved by Yokogawa Electric Corporation (hereafter simply referred to as Yokogawa) when replacing parts or consumables.
- The following symbols are used in the product and User's Manual to indicate that there are precautions for safety:



CAUTION

Indicates that caution is required for operation. This symbol is placed on the parts necessary to refer to the User's Manual for protecting the operator and equipment. In the User's Manual you will find precautions to avoid physical injury or death of the operator, including electrical shocks, injuries of human body, and so on.



WARNING

Indicates instructions that must be observed in order to prevent the software or hardware from being damaged or the system from becoming faulty.



IMPORTANT

Indicates important information required to understand operations or functions.

**NOTE**

Draws attention to information essential for understanding the operation and features.

TIP

Indicates additional information.

SEE

ALSO Indicates a source to refer to

⏚ Indicates a protective grounding terminal. Before using the product, ground the terminal.

⏚ Indicates a functional grounding terminal. Before using the product, ground the terminal.

== Indicates a DC supply

■ Warranty

- The warranty terms of this instrument are described in the quotation. We will make any repairs that may become necessary during the guaranteed term free of charge.
- Please contact our sales office or your local distributor if this instrument requires repair.
- If the instrument is faulty, contact us with complete details about the problem and the length of time it has been faulty, and state the model and serial number. We would appreciate the inclusion of drawings or additional information.
- The results of our examination will determine whether the product will be repaired free of charge or on an at-cost basis.

■ The guarantee will not apply in the following cases:

- Damage due to negligence or insufficient maintenance on the part of the customer.
- Problems or damage resulting from handling, operation or storage that violates the intended use and specifications.
- Problems that result from using or performing maintenance on the instrument in a location that does not comply with the installation location specified by Yokogawa.
- Problems or damage resulting from repairs or modifications not performed by Yokogawa or someone authorized by Yokogawa.
- Problems or damage resulting from inappropriate installation after delivery.
- Problems or damage resulting from disasters such as fires, earthquakes, storms, floods, or lightning strikes and external causes.

■ Warranty and Disclaimer

- Yokogawa assumes no responsibilities for this product except as stated in the warranty.
- Yokogawa shall have neither liability nor responsibility to any person or entity with respect to any direct or indirect loss or damage arising from using the product or any defect of the product that Yokogawa can not predict in advance.

■ Notes on Hardware

● Appearance and Accessories

Check the following when you receive the product:

- Appearance
- Standard accessories

Contact our sales representative or your local distributor if the product's coating has come off or any accessories are missing.

● Model and Suffix Codes

The name plate on the product contains the model and suffix codes. Compare them with those in the general specification to make sure the product is the correct one. If you have any questions, contact our sales office or your local distributor.

■ Notes on Attached Software

- Before opening the media package, read YFGW410 Software License Agreement. Once the package is opened, it is thought that the contract is agreed.
- Yokogawa assumes no responsibilities for this software except as stated in the warranty.
- This software is used with this product exclusively. This can be viewed and operated through the web browser in the computer which connects with this product.

■ Cautions for Safely Applying the Device

- EMC Conformity Standards

EN61326-1 Class A, Table 2 (For use in industrial locations), EN61000-6-2

This instrument is a Class A product, and it is designed for use in the industrial environment.

Please use this instrument in the industrial environment only.

How to Use Online Manual

It is necessary to install Adobe Acrobat Reader to read the instruction manual (YFGW410 Field Wireless Management Station: IM 01W02D01-01EN).

Install the following Adobe Reader by the administrator authority.

- Adobe Reader 9.3 or later

TIP

Adobe Reader can be downloaded from the Web site of Adobe Systems Incorporated.

● Reading Online Manual

The online manual is stored in the attached DVD-ROM. The file is not installed in the PC even if the attached software is installed to PC. Open the file by Adobe Reader to read the manual.

DVD-ROM Drive:\Document\en\IM 01W02D01-01EN.pdf

Preparation to Use YFGW410 Attached Software

To use YFGW410 Attached Software, a standard web browser for the following operating systems must have been installed in the PC.

Windows operating system	Standard web browser
Windows 7 Professional SP1 (32-bit)/(64-bit)	Internet Explorer (IE) 8.0
Windows Vista Business Edition SP2 (32-bit)	IE7.0
Windows Server 2008 Enterprise SP2 (32-bit)	IE7.0
Windows Server 2008 R2 Enterprise (64-bit)	IE8.0

Microsoft .NET Framework 3.5 Service Pack 1 is required.

For details on how to use web browsers, see the instruction manuals of respective operating systems.

The details of attached DVD-ROM, refer to the Readme_en.txt

DVD-ROM Drive:\Readme_en.txt

Copyright and Trademark Notices

■ All Rights Reserved

The copyrights of the media and this manual are reserved.

No part of the manual may be transferred, sold, distributed (including delivery via a commercial PC network or the like), or registered or recorded on video tapes or other media.

■ Trademark Acknowledgments

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- Microsoft, Windows, Windows Server, Windows Vista, Windows 7, Visual Basic, VisualC++, VisualC#, VisualStudio Microsoft .NET Framework 3.5 are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- Adobe, Acrobat and Acrobat Reader are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries.
- Ethernet is a registered trademark of XEROX Corporation.
- All other company and product names mentioned in this User's Manual are trademarks or registered trademarks of their respective companies.
- We do not use TM or ® mark to indicate those trademarks or registered trademarks in this User's Manual.

Open Source Software

This product uses open source software that is based on GNU general public license (GPL), etc.

■ Terms and Conditions of GPL

For details of GPL, visit the website:

<http://www.gnu.org/copyleft/gpl.html>

■ About Open Source License

The text of the open source license terms is provided to the License_en.txt in attached DVD-ROM.

DVD-ROM Drive:\Open Source Software\License_en.txt

■ Operation Guarantee

According to the terms and conditions of the license shown above, we do not guarantee the operation of open source software itself.

■ Information on Respective Open Source License Software

For module names and source codes of open source software that is used in this product, please contact us.

About User's Manual

■ Composition of User's Manual

This chapter explains the composition of User's Manual.

The following printed user's manual is attached to YFGW410 hardware.

- IM 01W02D01-11EN: Read me first

The following online user's manual is stored in the attached DVD-ROM for YFGW410.

- IM 01W02D01-01EN: YFGW410 Field Wireless Management Station

Information of User's Manual Revision

Material Name: Read Me First

Material Number: IM 01W02D01-11EN

Edition	Date	Page	Revised Item
1st Edition	August 2012		New Issue

YFGW410 Software License Agreement

IMPORTANT - PLEASE READ CAREFULLY BEFORE INSTALLING OR USING:
THIS AGREEMENT IS A LEGAL AGREEMENT BETWEEN YOU AND YOKOGAWA ELECTRIC CORPORATION AND/OR ITS SUBSIDIARIES (COLLECTIVELY, "YOKOGAWA") FOR YOU TO INSTALL OR USE YOKOGAWA YFGW410 SOFTWARE PRODUCT. BY VIEWING OR OTHERWISE USING THE SOFTWARE PRODUCT THROUGH A STANDARD WEB BROWSER OF CERTAIN OPERATING SYSTEMS, YOU AGREE TO BE BOUND BY THE TERMS AND CONDITIONS OF THIS AGREEMENT. IF YOU DO NOT AGREE, DO NOT USE THE SOFTWARE PRODUCT AND PROMPTLY CONTACT YOUR LOCAL DISTRIBUTOR.

IF YOU ARE NOT THE END USER OF THE SOFTWARE PRODUCT, YOU ARE REQUIRED TO PRESENT THE TERMS AND CONDITIONS OF THIS AGREEMENT TO THE END USER AND OBTAIN ITS CONSENT TO ABIDE BY THEM BEFORE IT STARTS TO USE THE SOFTWARE PRODUCT. SHOULD THERE BE ANY DISCREPANCY BETWEEN THIS AGREEMENT AND ANY OTHER WRITTEN AGREEMENT MADE BETWEEN YOU AND YOKOGAWA, THE LATTER SHALL PREVAIL.

1. Scope

- 1.1 This Agreement applies to the YFGW410 software products (the "Software Product"). The Software Product consists of:
 - a) Standard Software Product: The software products listed in the catalogues or "General Specifications" of Yokogawa.
 - b) Customized Software Product: The software products made by Yokogawa based on individually agreed specifications, which will be used with or in addition to the function of the Standard Software Product.
- 1.2 The Software Product includes, without limitation, computer programs, manuals and other associated documents, databases, fonts, input data, and any images, photographs, animations, video, voice, music, text, and applets (software linked to text and icons) embedded in the software.
- 1.3 Unless otherwise provided by Yokogawa, this Agreement applies to the updates and upgrades of the Software Product.

2. Grant of License

- 2.1 Subject to the terms and conditions of this Agreement, Yokogawa hereby grants to you a non-exclusive and non-transferable right to use the Software Product on the computer specified by Yokogawa or if not specified, on a single computer and solely for your internal operation use, in consideration of full payment by you to Yokogawa of the license fee separately agreed upon.
- 2.2 Unless otherwise agreed or provided by Yokogawa in writing, the following acts are prohibited:
 - a) to reproduce the Software Product;
 - b) to sell, lease, distribute, transfer, pledge, sublicense, make available via the network or otherwise convey the Software Product or the license granted herein to any other person or entity;
 - c) to use the Software Product on any unauthorized computer via the network;
 - d) to cause, permit or attempt to dump, disassemble, decompile, reverse-engineer, or otherwise translate or reproduce the Software Product into source code or other human readable format, or to revise or translate the Software Product into other language and change it to other formats than that in which Yokogawa provided;
 - e) to cause, permit or attempt to remove any copy protection used or provided in the Software Product; or
 - f) to remove any copyright notice, trademark notice, logo or other proprietary notices or identification shown in the Software Product.
- 2.3 Any and all technology, algorithms, know-how and process contained in the Software Product are the property or trade secret of Yokogawa or licensors to Yokogawa. Ownership of and all the rights in the Software Product shall be retained by Yokogawa or the licensors and none of the rights will be transferred to you hereunder.
- 2.4 You agree to maintain the aforementioned Yokogawa and the licensors property and trade secret in strict confidence, not to disclose it to any party other than your employees, officers, directors or similar staff who have a legitimate need to know to use the Software Product and agreed in writing to abide by the obligations hereunder.

2.5 Upon expiration or termination of this Agreement, the Software Product and its copies shall be returned to Yokogawa and any copies retained in your computer or media shall be deleted irretrievably. If you dispose of media in which the Software Product or its copy is stored, the contents shall be irretrievably deleted.

2.6 The Software Product may contain software which Yokogawa is granted a right to sublicense by third party suppliers ("Third Party Software"). If suppliers of the Third Party Software ("Supplier") provide special terms and conditions for the Third Party Software which differ from this Agreement, you agree to abide by such terms and conditions separately provided by Yokogawa.

3. Restrictions on Application

3.1 Unless otherwise agreed in writing between you and Yokogawa, the Software Product is not intended, designed, produced or licensed for aircraft operation or control, ship navigation or marine equipment control, or ground facility or device for support of the aforesaid operation or control, nor for planning, construction, maintenance or operation of any nuclear related facility.

3.2 If the Software Product is used for the abovementioned purposes, neither Yokogawa nor Supplier assumes liability for any claim or damage arising from the said use and you shall indemnify and hold Yokogawa, Supplier, their affiliates, subcontractors, officers, directors, employees and agents harmless from any liability or damage whatsoever, including any court costs and attorney's fees, arising out of or related to the said use.

4. Warranty

4.1 Yokogawa warrants that, for one year from the delivery by Yokogawa or any other period to be agreed by Yokogawa in writing ("Warranty Period"), the Software Product shall, if it is properly used under the operational conditions and on the hardware designated by Yokogawa and if used in accordance with the environmental or other conditions defined by Yokogawa or hardware supplier, operate substantially in compliance with the manuals or functional specifications provided by Yokogawa. The Warranty Period commences from the delivery of the Software Product by Yokogawa or when any part of the Software Product is used for operation, whichever comes earlier.

4.2 Under no conditions will Yokogawa warrant that:

- a) the Software Product is uninterrupted;
- b) the Software Product is error free;
- c) the Software Product is completely corrected;
- d) the Software Product has no inconsistency or interference with other software;
- e) the Software Product fits for a particular purpose or your intention; or
- f) the Software Product or the results arising there from is precise, reliable or up-to-date.

4.3 In case, during the Warranty Period, it is found that the Software Product does not operate in compliance with the manuals or functional specifications of Yokogawa, or its medium has a physical defect, Yokogawa will, at Yokogawa's discretion, repair, replace or present a workaround without charge, unless otherwise agreed by Yokogawa. However, if Yokogawa engineer or other engineer is required to attend for repair, replacement or implementing a workaround at the site, you will be charged for the site service fee. If Yokogawa deems necessary, you are required to initialize or stop the operation of the system, facility or equipment in or on which the Software Product is installed.

4.4 The above warranties shall not be applied to and Yokogawa shall not be liable for the defect or noncompliance which is subject to any of the following circumstances:

- a) the hardware on which the Software Product is installed has ceased to be covered by the warranty or maintenance contract of the hardware supplier;
- b) if the hardware on which the Software Product needs to be installed is specified, the hardware has been changed to other hardware without consent of Yokogawa;
- c) modification, improvement or alteration is made by a person other than Yokogawa or its designated service provider;
- d) your or third party's (excluding the service provider designated by Yokogawa) misuse, alteration, addition of new function, or use for any purpose not provided in the functional specifications of Yokogawa;
- e) the appropriate environmental or other conditions provided by Yokogawa or hardware supplier is not complied with;
- f) the corrective action (including repair, replacement or workaround) for the defect or non-compliance is not implemented as suggested by Yokogawa; or
- g) any other causes which are not deemed attributable to Yokogawa.

- 4.5 Notwithstanding the foregoing, any warranty with respect to the Third Party Software is subject to the terms and conditions of the Supplier.
- 4.6 THE ABOVE WARRANTY IS GIVEN AND ACCEPTED AS A SOLE AND EXCLUSIVE LIABILITY AND IN LIEU OF ALL OTHER LIABILITY OR WARRANTIES OF ANY KIND WHATSOEVER ON THE PART OF YOKOGAWA OR SUPPLIER, EXPRESS OR IMPLIED, IN FACT OR IN LAW. ALL IMPLIED WARRANTIES AND ESPECIALLY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT ARE EXPRESSLY EXCLUDED AND DISCLAIMED. The warranty provisions of the applicable law are expressly excluded to the extent permitted.

5. Maintenance Services

- 5.1 Scope and terms and conditions of maintenance service for the Software Product shall be subject to the latest Yokogawa standard terms and conditions of service or otherwise defined by Yokogawa. Unless otherwise provided in Yokogawa catalogues or General Specifications, services for the Standard Software Product will be available only for the latest version and the immediately preceding version. In any event service for the immediately preceding version will be available only for 5 years after the latest version has been released. In addition, no service will be provided by Yokogawa for the Software Product which has been discontinued for more than 5 years. As for the Customized Software Product, basically, Yokogawa will not provide maintenance service after the Warranty Period, provided that Yokogawa may provide alteration work subject to individual written agreement.
- 5.2 Notwithstanding otherwise stated in the preceding sub-clause, any maintenance service for the Third Party Software shall be subject to the terms and conditions provided by the Supplier.

6. Infringement

- 6.1 If you are warned or receive a claim by a third party that the Software Product in its original form infringes any third party's patent (which is issued at the time of delivery of the Software Product), trade mark, copyright or other intellectual property rights ("Claim"), you shall promptly notify Yokogawa thereof in writing.
- 6.2 If the infringement is attributable to Yokogawa, Yokogawa will defend you from the Claim at Yokogawa's expense and indemnify you from the damages finally granted by the court or otherwise agreed by Yokogawa out of court. The foregoing obligation and indemnity of Yokogawa shall be subject to that i) you promptly notify Yokogawa of the Claim in writing as provided above, ii) you grant to Yokogawa and its designees the full authority to control the defense and settlement of such Claim and iii) you give every and all necessary information and assistance to Yokogawa upon Yokogawa's request.
- 6.3 If Yokogawa believes that a Claim may be made or threatened, Yokogawa may, at its option and its expense, either a) procure for you the right to continue using the Software Product, b) replace the Software Product with other software product to prevent infringement, c) modify the Software Product, in whole or in part, so that it become non-infringing, or d) if Yokogawa believes that a) through c) are not practicable, refund you the paid-up amount of the book value of the Software Product as depreciated.
- 6.4 Notwithstanding the foregoing, Yokogawa shall have no obligation nor liability for, and you shall defend and indemnify Yokogawa and its suppliers from, the Claim, if the infringement is arising from a) modification of the Software Product made by a person other than Yokogawa, b) combination of the Software Product with hardware or software not furnished by Yokogawa, c) design or instruction provided by or on behalf of you, d) not complying with Yokogawa's suggestion, or e) any other causes not attributable to Yokogawa.

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EXCEPT TO THE EXTENT THAT LIABILITY MAY NOT LAWFULLY BE EXCLUDED IN CONTRACT, YOKOGAWA AND SUPPLIERS SHALL NOT BE LIABLE TO ANY PERSON OR LEGAL ENTITY FOR LOSS OR DAMAGE, WHETHER DIRECT, INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES, OR OTHER SIMILAR DAMAGES OF ANY KIND, INCLUDING WITHOUT LIMITATION, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, LOSS OR DESTRUCTION OF DATA, LOSS OF AVAILABILITY AND THE LIKE, ARISING OUT OF THE USE OR INABILITY TO USE OF THE SOFTWARE PRODUCT, OR ARISING OUT OF ITS GENERATED APPLICATIONS OR DATA, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, WHETHER BASED IN WARRANTY (EXPRESS OR IMPLIED), CONTRACT, STRICT LIABILITY, TORT (INCLUDING NEGLIGENCE), OR ANY OTHER LEGAL OR EQUITABLE GROUNDS. IN NO EVENT YOKOGAWA AND SUPPLIER'S AGGREGATE LIABILITY FOR ANY CAUSE OF ACTION WHATSOEVER (INCLUDING LIABILITY UNDER CLAUSE 6) SHALL EXCEED THE DEPRECIATED VALUE OF

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If the Software Product delivered by Yokogawa is altered, modified or combined with other software or is otherwise made different from Yokogawa catalogues, General Specifications, basic specifications, functional specifications or manuals without Yokogawa's prior written consent, Yokogawa shall be exempted from its obligations and liabilities under this Agreement or law.

8. Assignment

You shall not assign its rights or obligations under this Agreement without prior written consent of Yokogawa. If you novate or assign this Agreement and the Software Product with Yokogawa's consent, you shall transfer all copies and whole part of the Software Product to the assignee and shall delete any copy of the Software Product in possession. This Agreement shall inure to the benefit of and shall be binding on the successors of the parties.

9. Export Control

You agree to comply with the export control and related laws, regulations and orders of Japan, the United States of America, and any other applicable countries and, if you export or reexport the Software Product, to obtain export/import permit and take all necessary procedures under your own responsibility and at your own expense.

10. Audit; Withholding

10.1 Yokogawa shall have the right to access and audit your facilities and any of your records, including data stored on computers, in relation to the use of the Software Product as may be reasonably necessary in Yokogawa's opinion to verify that the requirements of this Agreement are being met.

10.2 Even after license being granted under this Agreement, should there be any change in circumstances or environment of use which was not foreseen at the time of delivery and, in Yokogawa's reasonable opinion, is not appropriate for using the Software Product, or if Yokogawa otherwise reasonably believes it is too inappropriate for you to continue using the Software Product, Yokogawa may suspend or withhold the license provided hereunder.

11. Termination

Yokogawa shall have the right to terminate this Agreement with immediate effect upon notice to you, if you or end users breach any of the terms and conditions hereof. Upon termination of this Agreement, you shall, and make end users, promptly cease using the Software Product and, in accordance with sub-clause 2.5, return or irretrievably delete all copies of the Software Product, certifying the same in writing. In this case the license fee paid by you for the Software Product shall not be refunded. Clauses 2.4 and 2.5, 6, 7 and 12 shall survive any termination of this Agreement.

12. Governing Law; Disputes

This Agreement shall be governed by and construed in accordance with the laws of Japan. If you are a Japanese individual or entity, all disputes, controversies or differences which may arise between the parties hereto, out of, in relation to or in connection with this Agreement ("Dispute") shall be brought exclusively in the Tokyo District Court (The Main Court) in Japan. If you are not a Japanese individual or entity, any Dispute shall be finally settled by arbitration in Tokyo, Japan in accordance with the Commercial Arbitration Rules of the Japan Commercial Arbitration Association. All proceedings in arbitration shall be conducted in the English language, unless otherwise agreed. The award of arbitration shall be final and binding upon both parties, however, each party may make an application to any court having jurisdiction for judgment to be entered on the award and/or for enforcement of the award.

13. Miscellaneous

13.1 This Agreement supersedes all prior oral and written understandings, representations and discussions between the parties concerning the subject matter hereof to the extent such understandings, representations and discussions should be discrepant or inconsistent with this Agreement.

13.2 If any part of this Agreement is found void or unenforceable, it shall not affect the validity of the balance of the Agreement, which shall remain valid and enforceable according to its terms and conditions. The parties hereby agree to attempt to substitute for such invalid or unenforceable provision a valid or enforceable provision that achieves to the greatest extent possible the economic, legal and commercial objectives of the invalid or unenforceable provision.

13.3 Failure by either party to insist on performance of this Agreement or to exercise a right when entitled does not prevent such party from doing so at a later time, either in relation to that default or any subsequent one.

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